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(71)Applicant : NIPPON KARORAIKU KOGYO KK

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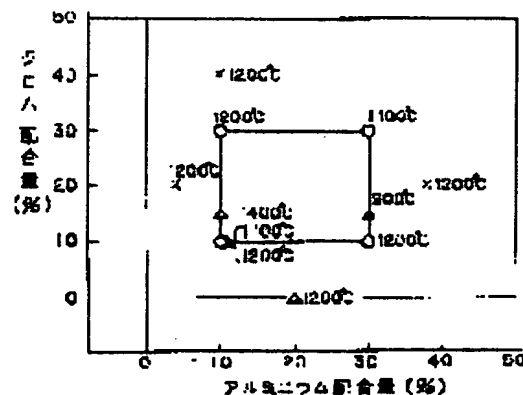
(72)Inventor : SHAMOTO HIROYUKI
MORIKAWA TAKASHI
YOSHIKAWA RIHEI
SUEYASU MASANOBU

(54) AL-CR COMPOSITE DIFFUSION COATING TREATING AGENT FOR TI ALLOY AND TREATMENT USING THE AGENT

(57)Abstract:

PURPOSE: To execute the Al-Cr composite diffusion coating treatment of a Ti alloy and to improve its oxidation resistance by constituting the above treating agent of specific wt.% of aluminum powder, chromium powder, ammonium chloride and the balance sintering-preventive powder.

CONSTITUTION: The Al-Cr composite diffusion coating treating agent for the Ti alloy is constituted, by weight %, of 10 to 30% aluminum powder, 10 to 30% chromium powder, 0.5 to 5% ammonium chloride and the balance the sintering-preventive powder. The Ti alloy is embedded into this treating agent and is heated at 1000 to 1300° C in a nonoxidative atmosphere, by which the Al-Cr diffusion coating layer is formed on the surface of the Ti alloy. Al-Cr alloy powder is compounded in place of a part or the whole of the aluminum powder or chromium powder. As a result, a precision polishing stage is simplified or saved.



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